$P A D P$

18 November 1970

MEMORANDUM FOR: See Distribution

SUBJECT : Requirements for Large Virtual Memories on 360/67 Systems

1. The most critical resource on the 360/67 system which affects all users is memory. The two drums on the system provide an eight million byte logical extension of core memory, but even this is not adequate if several applications with large memory requirements are active concurrently. In these situations disc storage must also be used for the memory paging process, which is much slower and degrades user response time significantly.

2. When CP/67 was put in production, users were asked to keep their virtual memory requirements within 512K bytes. There has been a gradual increase in the number of users at and above this limit -- to the point where it will be necessary to review regularly user needs for CP/67 memory. I have set 256K as the size above which I would like review. At the present time the virtual machine(s) now available to people in your component are within this limit. Future requests and justification for virtual memory in excess of 256K should be forwarded to me.

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